



STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
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Application Serial Number: 10/781,059

Source: IFWO

Date Processed by STIC: 06/16/2006

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
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Revised 01/10/06



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/781,059

DATE: 06/16/2006
TIME: 12:31:59

Input Set : E:\7326-132.TXT
Output Set: N:\CRF4\06162006\J781059.raw

4 <110> APPLICANT: Spyridon Artavanis-Tsakonas
5 Huilin Qi
6 Matthew Rand
8 <120> TITLE OF INVENTION: ACTIVATED FORMS OF NOTCH AND METHODS
9 BASED THEREON
11 <130> FILE REFERENCE: 7326-132-999
13 <140> CURRENT APPLICATION NUMBER: 10/781,059
14 <141> CURRENT FILING DATE: 2004-02-17
16 <150> PRIOR APPLICATION NUMBER: 09/121,457
17 <151> PRIOR FILING DATE: 1998-07-23
19 <150> PRIOR APPLICATION NUMBER: 08/899,232
20 <151> PRIOR FILING DATE: 1997-07-23
22 <160> NUMBER OF SEQ ID NOS: 4
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 2471
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
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35 20 25 30
36 Glu Pro Cys Val Asn Glu Gly Met Cys Val Thr Tyr His Asn Gly Thr
37 35 40 45
38 Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His
39 50 55 60
40 Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val
41 65 70 75 80
42 Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe
43 85 90 95
44 Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser
45 100 105 110
46 Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr
47 115 120 125
48 Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp
49 130 135 140
50 Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr
51 145 150 155 160
52 Thr Val Ala Asn Gln Phe Ser Cys Lys Cys Leu Thr Gly Phe Thr Gly
53 165 170 175
54 Gln Lys Cys Glu Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys
55 180 185 190

Does Not Comply
Corrected Diskette Needed
(pg-6, 8, 10)

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TIME: 12:31:59

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Output Set: N:\CRF4\06162006\J781059.raw

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60 Cys Ala Pro Ser Pro Cys Val Asn Gly Gly Thr Cys Arg Gln Thr Gly
61 225      230      235      240
62 Asp Phe Thr Phe Glu Cys Asn Cys Leu Pro Gly Phe Glu Gly Ser Thr
63      245      250      255
64 Cys Glu Arg Asn Ile Asp Asp Cys Pro Asn His Arg Cys Gln Asn Gly
65      260      265      270
66 Gly Val Cys Val Asp Gly Val Asn Thr Tyr Asn Cys Arg Cys Pro Pro
67      275      280      285
68 Gln Trp Thr Gly Gln Phe Cys Thr Glu Asp Val Asp Glu Cys Leu Leu
69      290      295      300
70 Gln Pro Asn Ala Cys Gln Asn Gly Gly Thr Cys Ala Asn Arg Asn Gly
71 305      310      315      320
72 Gly Tyr Gly Cys Val Cys Val Asn Gly Trp Ser Gly Asp Asp Cys Ser
73      325      330      335
74 Glu Asn Ile Asp Asp Cys Ala Phe Ala Ser Cys Thr Pro Gly Ser Thr
75      340      345      350
76 Cys Ile Asp Arg Val Ala Ser Phe Ser Cys Met Cys Pro Glu Gly Lys
77      355      360      365
78 Ala Gly Leu Leu Cys His Leu Asp Asp Ala Cys Ile Ser Asn Pro Cys
79      370      375      380
80 His Lys Gly Ala Leu Cys Asp Thr Asn Pro Leu Asn Gly Gln Tyr Ile
81 385      390      395      400
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83      405      410      415
84 Asp Glu Cys Ala Met Ala Asn Ser Asn Pro Cys Glu His Ala Gly Lys
85      420      425      430
86 Cys Val Asn Thr Asp Gly Ala Phe His Cys Glu Cys Leu Lys Gly Tyr
87      435      440      445
88 Ala Gly Pro Arg Cys Glu Met Asp Ile Asn Glu Cys His Ser Asp Pro
89      450      455      460
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91 465      470      475      480
92 Leu Cys Met Pro Gly Phe Lys Gly Val His Cys Glu Leu Glu Ile Asn
93      485      490      495
94 Glu Cys Gln Ser Asn Pro Cys Val Asn Asn Gly Gln Cys Val Asp Lys
95      500      505      510
96 Val Asn Arg Phe Gln Cys Leu Cys Pro Pro Gly Phe Thr Gly Pro Val
97      515      520      525
98 Cys Gln Ile Asp Ile Asp Asp Cys Ser Ser Thr Pro Cys Leu Asn Gly
99      530      535      540
100 Ala Lys Cys Ile Asp His Pro Asn Gly Tyr Glu Cys Gln Cys Ala Thr
101 545      550      555      560
102 Gly Phe Thr Gly Val Leu Cys Glu Glu Asn Ile Asp Asn Cys Asp Pro
103      565      570      575
104 Asp Pro Cys His His Gly Gln Cys Gln Asp Gly Ile Asp Ser Tyr Thr

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105		580		585		590
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107		595		600		605
108	Asp Glu Cys	Tyr Ser Ser Pro Cys	Leu Asn Asp Gly	Arg Cys Ile Asp		
109		610		615		620
110	Leu Val Asn	Gly Tyr Gln Cys Asn Cys	Gln Pro Gly Thr	Ser Gly Val		
111	625		630		635	640
112	Asn Cys Glu	Ile Asn Phe Asp Asp Cys	Ala Ser Asn Pro Cys	Ile His		
113		645		650		655
114	Gly Ile Cys	Met Asp Gly Ile Asn Arg Tyr	Ser Cys Val Cys	Ser Pro		
115		660		665		670
116	Gly Phe Thr	Gly Gln Arg Cys Asn Ile Asp	Ile Asp Glu Cys	Ala Ser		
117		675		680		685
118	Asn Pro Cys	Arg Lys Gly Ala Thr Cys	Ile Asn Gly Val	Asn Gly Phe		
119		690		695		700
120	Arg Cys Ile	Cys Pro Glu Gly Pro His His	Pro Ser Cys Tyr	Ser Gln		
121	705		710		715	720
122	Val Asn Glu	Cys Leu Ser Asn Pro Cys	Ile His Gly Asn	Cys Thr Gly		
123		725		730		735
124	Gly Leu Ser	Gly Tyr Lys Cys Leu Cys	Asp Ala Gly Trp	Val Gly Ile		
125		740		745		750
126	Asn Cys Glu	Val Asp Lys Asn Glu Cys	Leu Ser Asn Pro Cys	Gln Asn		
127		755		760		765
128	Gly Gly Thr	Cys Asp Asn Leu Val Asn Gly	Tyr Arg Cys Thr	Cys Lys		
129		770		775		780
130	Lys Gly Phe	Lys Gly Tyr Asn Cys Gln Val	Asn Ile Asp Glu	Cys Ala		
131	785		790		795	800
132	Ser Asn Pro	Cys Leu Asn Gln Gly Thr Cys	Phe Asp Asp Ile	Ser Gly		
133		805		810		815
134	Tyr Thr Cys	His Cys Val Leu Pro Tyr Thr	Gly Lys Asn Cys	Gln Thr		
135		820		825		830
136	Val Leu Ala	Pro Cys Ser Pro Asn Pro Cys	Glu Asn Ala Ala	Val Cys		
137		835		840		845
138	Lys Glu Ser	Pro Asn Phe Glu Ser Tyr Thr	Cys Leu Cys Ala	Pro Gly		
139		850		855		860
140	Trp Gln Gly	Gln Arg Cys Thr Ile Asp Ile	Asp Glu Cys Ile	Ser Lys		
141	865		870		875	880
142	Pro Cys Met	Asn His Gly Leu Cys His Asn	Thr Gln Gly Ser	Tyr Met		
143		885		890		895
144	Cys Glu Cys	Pro Pro Gly Phe Ser Gly Met	Asp Cys Glu Glu	Asp Ile		
145		900		905		910
146	Asp Asp Cys	Leu Ala Asn Pro Cys Gln Asn	Gly Gly Ser Cys	Met Asp		
147		915		920		925
148	Gly Val Asn	Thr Phe Ser Cys Leu Cys Leu	Pro Gly Phe Thr	Gly Asp		
149		930		935		940
150	Lys Cys Gln	Thr Asp Met Asn Glu Cys Leu	Ser Glu Pro Cys	Lys Asn		
151	945		950		955	960
152	Gly Gly Thr	Cys Ser Asp Tyr Val Asn Ser	Tyr Thr Cys Lys	Cys Gln		
153		965		970		975

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154 Ala Gly Phe Asp Gly Val His Cys Glu Asn Asn Ile Asn Glu Cys Thr
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156 Glu Ser Ser Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile Asn Ser
157          995          1000          1005
158 Phe Ser Cys Leu Cys Pro Val Gly Phe Thr Gly Ser Phe Cys Leu His
159          1010          1015          1020
160 Glu Ile Asn Glu Cys Ser Ser His Pro Cys Leu Asn Glu Gly Thr Cys
161 1025          1030          1035          1040
162 Val Asp Gly Leu Gly Thr Tyr Arg Cys Ser Cys Pro Leu Gly Tyr Thr
163          1045          1050          1055
164 Gly Lys Asn Cys Gln Thr Leu Val Asn Leu Cys Ser Arg Ser Pro Cys
165          1060          1065          1070
166 Lys Asn Lys Gly Thr Cys Val Gln Lys Lys Ala Glu Ser Gln Cys Leu
167          1075          1080          1085
168 Cys Pro Ser Gly Trp Ala Gly Ala Tyr Cys Asp Val Pro Asn Val Ser
169          1090          1095          1100
170 Cys Asp Ile Ala Ala Ser Arg Arg Gly Val Leu Val Glu His Leu Cys
171 1105          1110          1115          1120
172 Gln His Ser Gly Val Cys Ile Asn Ala Gly Asn Thr His Tyr Cys Gln
173          1125          1130          1135
174 Cys Pro Leu Gly Tyr Thr Gly Ser Tyr Cys Glu Glu Gln Leu Asp Glu
175          1140          1145          1150
176 Cys Ala Ser Asn Pro Cys Gln His Gly Ala Thr Cys Ser Asp Phe Ile
177          1155          1160          1165
178 Gly Gly Tyr Arg Cys Glu Cys Val Pro Gly Tyr Gln Gly Val Asn Cys
179          1170          1175          1180
180 Glu Tyr Glu Val Asp Glu Cys Gln Asn Gln Pro Cys Gln Asn Gly Gly
181 1185          1190          1195          1200
182 Thr Cys Ile Asp Leu Val Asn His Phe Lys Cys Ser Cys Pro Pro Gly
183          1205          1210          1215
184 Thr Arg Gly Leu Leu Cys Glu Glu Asn Ile Asp Asp Cys Ala Arg Gly
185          1220          1225          1230
186 Pro His Cys Leu Asn Gly Gly Gln Cys Met Asp Arg Ile Gly Gly Tyr
187          1235          1240          1245
188 Ser Cys Arg Cys Leu Pro Gly Phe Ala Gly Glu Arg Cys Glu Gly Asp
189          1250          1255          1260
190 Ile Asn Glu Cys Leu Ser Asn Pro Cys Ser Ser Glu Gly Ser Leu Asp
191 1265          1270          1275          1280
192 Cys Ile Gln Leu Thr Asn Asp Tyr Leu Cys Val Cys Arg Ser Ala Phe
193          1285          1290          1295
194 Thr Gly Arg His Cys Glu Thr Phe Val Asp Val Cys Pro Gln Met Pro
195          1300          1305          1310
196 Cys Leu Asn Gly Gly Thr Cys Ala Val Ala Ser Asn Met Pro Asp Gly
197          1315          1320          1325
198 Phe Ile Cys Arg Cys Pro Pro Gly Phe Ser Gly Ala Arg Cys Gln Ser
199          1330          1335          1340
200 Ser Cys Gly Gln Val Lys Cys Arg Lys Gly Glu Gln Cys Val His Thr
201 1345          1350          1355          1360
202 Ala Ser Gly Pro Arg Cys Phe Cys Pro Ser Pro Arg Asp Cys Glu Ser

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205		1380		1385		1390
206	Arg Gln Pro Pro Tyr Tyr Ser Cys Gln Cys Ala Pro Pro Phe Ser Gly					
207		1395		1400		1405
208	Ser Arg Cys Glu Leu Tyr Thr Ala Pro Pro Ser Thr Pro Pro Ala Thr					
209		1410		1415		1420
210	Cys Leu Ser Gln Tyr Cys Ala Asp Lys Ala Arg Asp Gly Val Cys Asp					
211	1425		1430		1435	1440
212	Glu Ala Cys Asn Ser His Ala Cys Gln Trp Asp Gly Gly Asp Cys Ser					
213		1445		1450		1455
214	Leu Thr Met Glu Asn Pro Trp Ala Asn Cys Ser Ser Pro Leu Pro Cys					
215		1460		1465		1470
216	Trp Asp Tyr Ile Asn Asn Gln Cys Asp Glu Leu Cys Asn Thr Val Glu					
217		1475		1480		1485
218	Cys Leu Phe Asp Asn Phe Glu Cys Gln Gly Asn Ser Lys Thr Cys Lys					
219		1490		1495		1500
220	Tyr Asp Lys Tyr Cys Ala Asp His Phe Lys Asp Asn His Cys Asn Gln					
221	1505		1510		1515	1520
222	Gly Cys Asn Ser Glu Glu Cys Gly Trp Asp Gly Leu Asp Cys Ala Ala					
223		1525		1530		1535
224	Asp Gln Pro Glu Asn Leu Ala Glu Gly Thr Leu Val Ile Val Val Leu					
225		1540		1545		1550
226	Met Pro Pro Glu Gln Leu Leu Gln Asp Ala Arg Ser Phe Leu Arg Ala					
227		1555		1560		1565
228	Leu Gly Thr Leu Leu His Thr Asn Leu Arg Ile Lys Arg Asp Ser Gln					
229		1570		1575		1580
230	Gly Glu Leu Met Val Tyr Pro Tyr Tyr Gly Glu Lys Ser Ala Ala Met					
231	1585		1590		1595	1600
232	Lys Lys Gln Arg Met Thr Arg Arg Ser Leu Pro Gly Glu Gln Glu Gln					
233		1605		1610		1615
234	Glu Val Ala Gly Ser Lys Val Phe Leu Glu Ile Asp Asn Arg Gln Cys					
235		1620		1625		1630
236	Val Gln Asp Ser Asp His Cys Phe Lys Asn Thr Asp Ala Ala Ala Ala					
237		1635		1640		1645
238	Leu Leu Ala Ser His Ala Ile Gln Gly Thr Leu Ser Tyr Pro Leu Val					
239		1650		1655		1660
240	Ser Val Val Ser Glu Ser Leu Thr Pro Glu Arg Thr Gln Leu Leu Tyr					
241	1665		1670		1675	1680
242	Leu Leu Ala Val Ala Val Val Ile Ile Leu Phe Ile Ile Leu Leu Gly					
243		1685		1690		1695
244	Val Ile Met Ala Lys Arg Lys Arg Lys His Gly Ser Leu Trp Leu Pro					
245		1700		1705		1710
246	Glu Gly Phe Thr Leu Arg Arg Asp Ala Ser Asn His Lys Arg Arg Glu					
247		1715		1720		1725
248	Pro Val Gly Gln Asp Ala Val Gly Leu Lys Asn Leu Ser Val Gln Val					
249		1730		1735		1740
250	Ser Glu Ala Asn Leu Ile Gly Thr Gly Thr Ser Glu His Trp Val Asp					
251	1745		1750		1755	1760

<210> SEQ ID NO 2
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→ 'Leu' at this Location

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→ 'Pro' at this Location

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Asn	Gly	Gly	Lys	Cys	Glu	Ala	Ala	Asn	Gly	Thr	Glu	Ala	Cys	Val	Cys
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Gly	Gly	Ala	Phe	Val	Gly	Pro	Arg	Cys	Gln	Asp	Pro	Asn	Pro	Cys	Leu
	50						55				60				
Ser	Thr	Pro	Cys	Lys	Asn	Ala	Gly	Thr	Cys	His	Val	Val	Asp	Arg	Arg
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Gly	Val	Ala	Asp	Tyr	Ala	Cys	Ser	Cys	Ala	Leu	Gly	Phe	Ser	Gly	Pro
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			115					120					125		
Cys	Pro	Pro	Gly	Trp	Ser	Gly	Lys	Ser	Cys	Gln	Gln	Ala	Asp	Pro	Cys
			130				135					140			
Ala	Ser	Asn	Pro	Cys	Ala	Asn	Gly	Gly	Gln	Cys	Leu	Pro	Phe	Glu	Ala
145					150					155				160	
Ser	Tyr	Ile	Cys	His	Cys	Pro	Pro	Ser	Phe	His	Gly	Pro	Thr	Cys	Trp
			165						170					175	
Gln	Asp	Val	Asn	Glu	Cys	Gly	Gln	Lys	Pro	Arg	Leu	Cys	Arg	His	Gly
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Gly	Thr	Cys	His	Asn	Glu	Val	Gly	Ser	Tyr	Arg	Cys	Val	Cys	Arg	Ala
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Thr	His	Thr	Gly	Pro	Asn	Cys	Glu	Trp	Pro	Tyr	Val	Pro	Cys	Ser	Pro
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225					230					235				240	
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			245					250						255	
Asn	Ile	Asp	Asp	Cys	Pro	Gly	Asn	Asn	Cys	Lys	Asn	Gly	Gly	Ala	Cys
			260					265					270		
Val	Asp	Gly	Val	Asn	Thr	Tyr	Asn	Cys	Pro	Cys	Pro	Pro	Glu	Trp	Thr
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Gly	Gln	Tyr	Cys	Thr	Glu	Asp	Val	Asp	Glu	Cys	Gln	Leu	Met	Pro	Asn
			290				295					300			
Ala	Cys	Gln	Asn	Gly	Gly	Thr	Cys	His	Asn	Thr	His	Gly	Gly	Tyr	Asn
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 Asp Asp Cys Ala Ser Ala Ala Cys Phe His Gly Ala Thr Cys His Asp
 340 345 350
 Arg Val Ala Ser Phe Tyr Cys Glu Cys Pro His Gly Arg Thr Gly Leu
 355 360 365
 Leu Cys His Leu Asn Asp Ala Cys Ile Ser Asn Pro Cys Asn Glu Gly
 370 375 380
 Ser Asn Cys Asp Thr Asn Pro Val Asn Gly Lys Ala Ile Cys Thr Cys
 385 390 395 400
 Pro Ser Gly Tyr Thr Gly Pro Ala Cys Ser Gln Asp Val Asp Glu Cys
 405 410 415
 Ser Leu Gly Ala Asn Pro Cys Glu His Ala Gly Lys Cys Ile Asn Thr
 420 425 430
 Leu Gly Ser Phe Glu Cys Gln Cys Leu Gln Gly Tyr Thr Gly Pro Arg
 435 440 445
 Cys Glu Ile Asp Val Asn Glu Cys Val Ser Asn Pro Cys Gln Asn Asp
 450 455 460
 Ala Thr Cys Leu Asp Gln Ile Gly Glu Phe Gln Cys Met Cys Met Pro
 465 470 475 480
 Gly Tyr Glu Gly Val His Cys Glu Val Asn Thr Asp Glu Cys Ala Ser
 485 490 495
 Ser Pro Cys Leu His Asn Gly Arg Cys Leu Asp Lys Ile Asn Glu Phe
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 Gln Cys His Cys Pro Thr Gly His Thr Gly His Leu Cys Gln Tyr Asp
 515 520 525
 Val Asp Glu Cys Ala Ser Thr Pro Cys Lys Asn Gly Ala Lys Cys Leu
 530 535 540
 Asp Gly Pro Asn Thr Tyr Thr Cys Val Cys Thr Glu Gly Tyr Thr Gly
 545 550 555 560
 Thr His Cys Glu Val Asp Ile Asp Glu Cys Asp Pro Asp Pro Cys His
 565 570 575
 Tyr Gly Ser Cys Lys Asp Gly Val Ala Thr Phe Thr Cys Leu Cys Arg
 580 585 590
 Pro Gly Tyr Thr Gly His His Cys Glu Thr Asn Ile Asn Glu Cys Ser
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 755 760 765
 Lys Asp Met Thr Ser Gly Ile Val Cys Thr Cys Trp Glu Gly Phe Ser

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Gly Pro Asn Cys Gln Thr Asn Ile Asn Glu Cys Ala Ser Asn Pro Cys		
785	790	795
Leu Asn Lys Gly Thr Cys Ile Asp Asp Val Ala Gly Tyr Lys Cys Asn		800
	805	810
Cys Leu Leu Pro Tyr Thr Gly Ala Thr Cys Glu Val Val Leu Ala Pro		815
	820	825
Cys Ala Pro Ser Pro Cys Arg Asn Gly Gly Glu Cys Arg Gln Ser Glu		830
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Asp Tyr Glu Ser Phe Ser Cys Val Cys Pro Thr Ala Gly Ala Lys Gly		845
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Gln Thr Cys Glu Val Asp Ile Asn Glu Cys Val Leu Ser Pro Cys Trp		860
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His Gly Ala Ser Cys Gln Asn Thr His Gly Xaa Tyr Arg Cys His Cys		880
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Gln Ala Gly Tyr Ser Gly Arg Asn Cys Glu Thr Asp Ile Asp Asp Cys		895
	900	905
Trp Pro Asn Pro Cys His Asn Gly Gly Ser Cys Thr Asp Gly Ile Asn		910
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Thr Ala Phe Cys Asp Cys Leu Pro Gly Phe Trp Gly Thr Phe Cys Glu		925
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Glu Asp Ile Asn Glu Cys Ala Ser Asp Pro Cys Arg Asn Gly Ala Asn		940
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Cys Thr Asp Cys Val Asp Ser Tyr Thr Cys Thr Cys Pro Ala Gly Phe		955
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Ser Gly Ile His Cys Glu Asn Asn Thr Pro Asp Cys Thr Glu Ser Ser		970
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Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile Asn Ser Phe Thr Cys		985
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Leu Cys Pro Pro Gly Phe Thr Gly Ser Tyr Cys Gln His Val Val Asn		1000
	1005	1010
Glu Cys Asp Ser Arg Pro Cys Leu Leu Gly Gly Thr Cys Gln Asp Gly		1015
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Arg Gly Leu His Arg Cys Thr Cys Pro Gln Gly Tyr Thr Gly Pro Asn		1030
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Cys Gln Asn Leu Val His Trp Cys Asp Ser Ser Pro Cys Lys Asn Gly		1045
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Gly Lys Cys Trp Gln Thr His Thr Gln Tyr Arg Cys Glu Cys Pro Ser		1060
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Gly Trp Thr Gly Leu Tyr Cys Asp Val Pro Ser Val Ser Cys Glu Val		1075
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Ala Ala Gln Arg Gln Gly Val Asp Val Ala Arg Leu Cys Gln His Gly		1090
	1095	1100
Gly Leu Cys Val Asp Ala Gly Asn Thr His His Cys Arg Cys Gln Ala		1105
	1110	1115
Gly Tyr Thr Gly Ser Tyr Cys Glu Asp Leu Val Asp Glu Cys Ser Pro		1120
	1125	1130
Ser Pro Cys Gln Asn Gly Ala Thr Cys Thr Asp Tyr Leu Gly Gly Tyr		1135
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Ser Cys Lys Cys Val Ala Gly Tyr His Gly Val Asn Cys Ser Glu Glu		1150
	1155	1160
Ile Asp Glu Cys Leu Ser His Pro Cys Gln Asn Gly Gly Thr Cys Leu		1165
	1170	1175
Asp Leu Pro Asn Thr Tyr Lys Cys Ser Cys Pro Trp Gly Thr Gln Gly		1180
	1185	1190
Val His Cys Glu Ile Asn Val Asp Asp Cys Asn Pro Pro Val Asp Pro		1195
	1200	1205
	1210	1215
	1220	1225
		1230

→ P/Ls
Explains
Xaa location
See pg-11
for Error
Explanation

Val Ser Trp Ser Pro Lys Cys Phe Asn Asn Gly Thr Cys Val Asp Gln
 1235 1240 1245
 Val Gly Gly Tyr Ser Cys Thr Cys Pro Pro Gly Phe Val Gly Glu Arg
 1250 1255 1260
 Cys Glu Gly Asp Val Asn Glu Cys Leu Ser Asn Pro Cys Asp Ala Arg
 1265 1270 1275 1280
 Gly Thr Gln Asn Cys Val Gln Arg Val Asn Asp Phe His Cys Glu Cys
 1285 1290 1295
 Arg Ala Gly His Thr Gly Arg Arg Cys Glu Ser Val Ile Asn Gly Cys
 1300 1305 1310
 Lys Gly Lys Pro Cys Lys Asn Gly Gly Thr Cys Ala Val Ala Ser Asn
 1315 1320 1325
 Thr Ala Arg Gly Phe Ile Cys Lys Cys Pro Ala Gly Phe Glu Gly Ala
 1330 1335 1340
 Thr Cys Glu Asn Asp Ala Arg Thr Cys Gly Ser Leu Arg Cys Leu Asn
 1345 1350 1355 1360
 Gly Gly Thr Cys Ile Ser Gly Pro Arg Ser Pro Thr Cys Leu Cys Leu
 1365 1370 1375
 Gly Pro Phe Thr Gly Pro Glu Cys Gln Phe Pro Ala Ser Ser Pro Cys
 1380 1385 1390
 Leu Gly Gly Asn Pro Cys Tyr Asn Gln Gly Thr Cys Glu Pro Thr Ser
 1395 1400 1405
 Glu Ser Pro Phe Tyr Arg Cys Leu Cys Pro Ala Lys Phe Asn Gly Leu
 1410 1415 1420
 Leu Cys His Ile Leu Asp Tyr Ser Phe Gly Gly Gly Ala Gly Arg Asp
 1425 1430 1435 1440
 Ile Pro Pro Pro Leu Ile Glu Glu Ala Cys Glu Leu Pro Glu Cys Gln
 1445 1450 1455
 Glu Asp Ala Gly Asn Lys Val Cys Ser Leu Gln Cys Asn Asn His Ala
 1460 1465 1470
 Cys Gly Trp Asp Gly Gly Asp Cys Ser Leu Asn Phe Asn Asp Pro Trp
 1475 1480 1485
 Lys Asn Cys Thr Gln Ser Leu Gln Cys Trp Lys Tyr Phe Ser Asp Gly
 1490 1495 1500
 His Cys Asp Ser Gln Cys Asn Ser Ala Gly Cys Leu Phe Asp Gly Phe
 1505 1510 1515 1520
 Asp Cys Gln Arg Ala Glu Gly Gln Cys Asn Pro Leu Tyr Asp Gln Tyr
 1525 1530 1535
 Cys Lys Asp His Phe Ser Asp Gly His Cys Asp Gln Gly Cys Asn Ser
 1540 1545 1550
 Ala Glu Cys Glu Trp Asp Gly Leu Asp Cys Ala Glu His Val Pro Glu
 1555 1560 1565
 Arg Leu Ala Ala Gly Thr Leu Val Val Val Leu Met Pro Pro Glu
 1570 1575 1580
 Gln Leu Arg Asn Ser Ser Phe His Phe Leu Trp Glu Leu Ser Arg Val
 1585 1590 1595 1600
 Leu His Thr Asn Val Val Phe Lys Arg Asp Ala His Gly Gln Gln Met
 1605 1610 1615
 Ile Phe Pro Tyr Tyr Gly Arg Glu Glu Leu Arg Lys His Pro Ile
 1620 1625 1630
 Lys Arg Ala Ala Glu Gly Trp Ala Ala Pro Asp Ala Leu Leu Gly Gln
 1635 1640 1645
 Val Lys Ala Ser Leu Leu Pro Gly Gly Ser Glu Gly Gly Trp Trp Trp
 1650 1655 1660
 Arg Glu Leu Asp Pro Met Asp Val Arg Gly Ser Ile Val Tyr Leu Glu
 1665 1670 1675 1680
 Ile Asp Asn Trp Gln Cys Val Gln Ala Ser Ser Gln Cys Phe Gln Ser

1685	1690	1695
Ala Thr Asp Val Ala Ala Phe Leu Gly Ala Leu Ala Ser Leu Gly Ser		
1700	1705	1710
Leu Asn Ile Pro Tyr Lys Ile Glu Ala Val Gln Ser Glu Thr Val Glu		
1715	1720	1725
Pro Pro Pro Pro Ala Gln Leu His Phe Met Tyr Val Ala Ala Ala Ala		
1730	1735	1740
Phe Val Leu Leu Phe Phe Val Gly Cys Gly Val Leu Leu Ser Arg Lys		
1745	1750	1755
Arg Trp Xaa Gln His Gly Gln Leu Trp Phe Pro Glu Gly Phe Lys Val		1760
1765	1770	1775
Ser Glu Ala Ser Lys Lys Lys Trp Trp Glu Xaa Leu Gly Glu Asp Ser		
1780	1785	1790
Val Gly Leu Lys Pro Leu Lys Asn Ala Ser Asp Gly Ala Leu Met Asp		
1795	1800	1805

→ Same Error ←

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/781,059

DATE: 06/16/2006
TIME: 12:32:00

Input Set : E:\7326-132.TXT

Output Set: N:\CRF4\06162006\J781059.raw

Error Explanation

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 891,1763,1787

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/781,059

DATE: 06/16/2006

TIME: 12:32:00

Input Set : E:\7326-132.TXT

Output Set: N:\CRF4\06162006\J781059.raw

L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:880
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:1760
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:1776